

FIGURE 1

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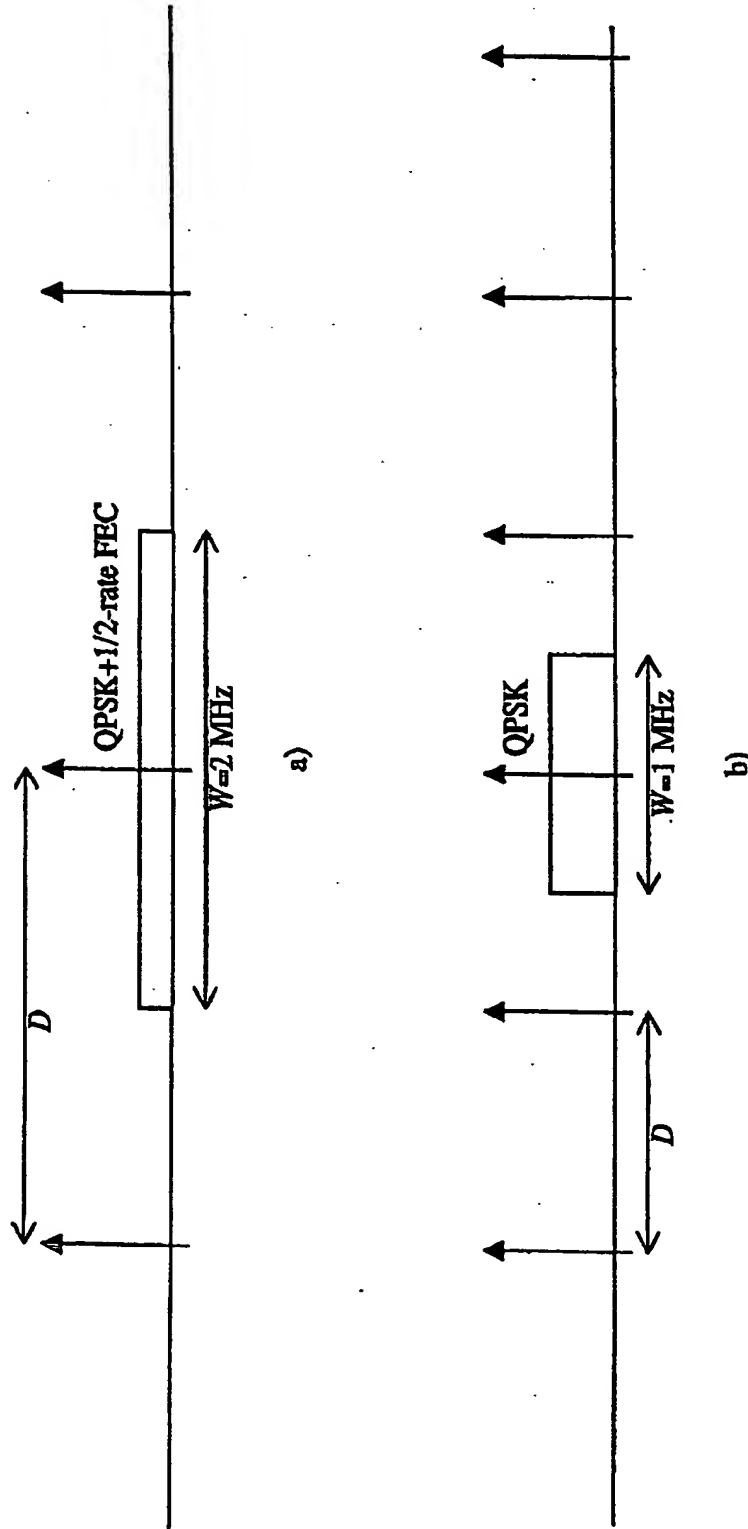


FIGURE 2

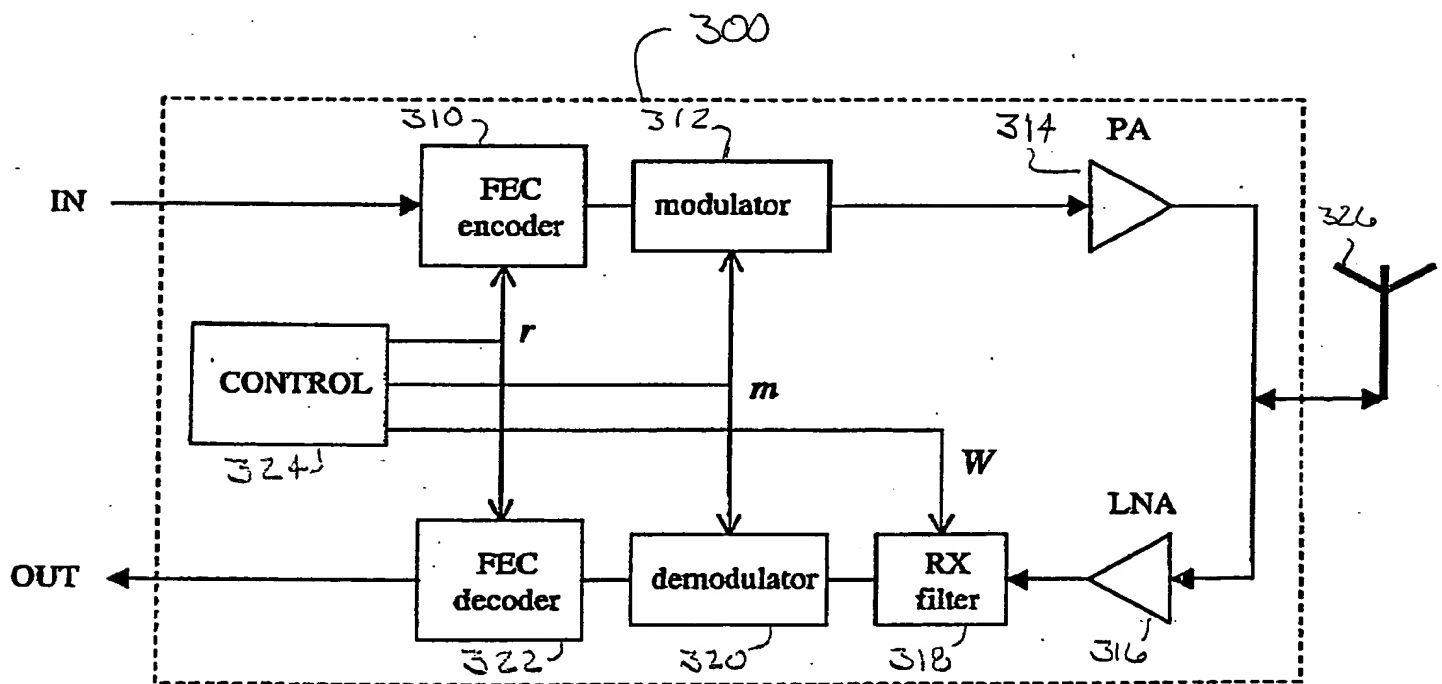
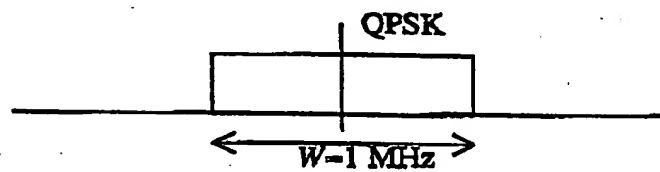
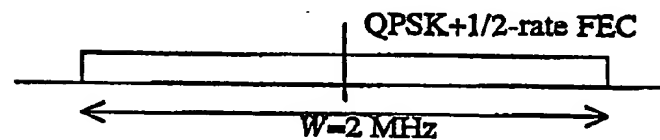


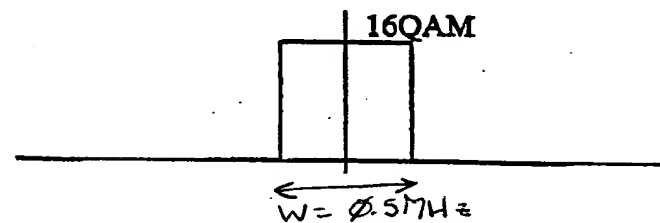
FIGURE 3



a)



b)



c)

FIGURE 4

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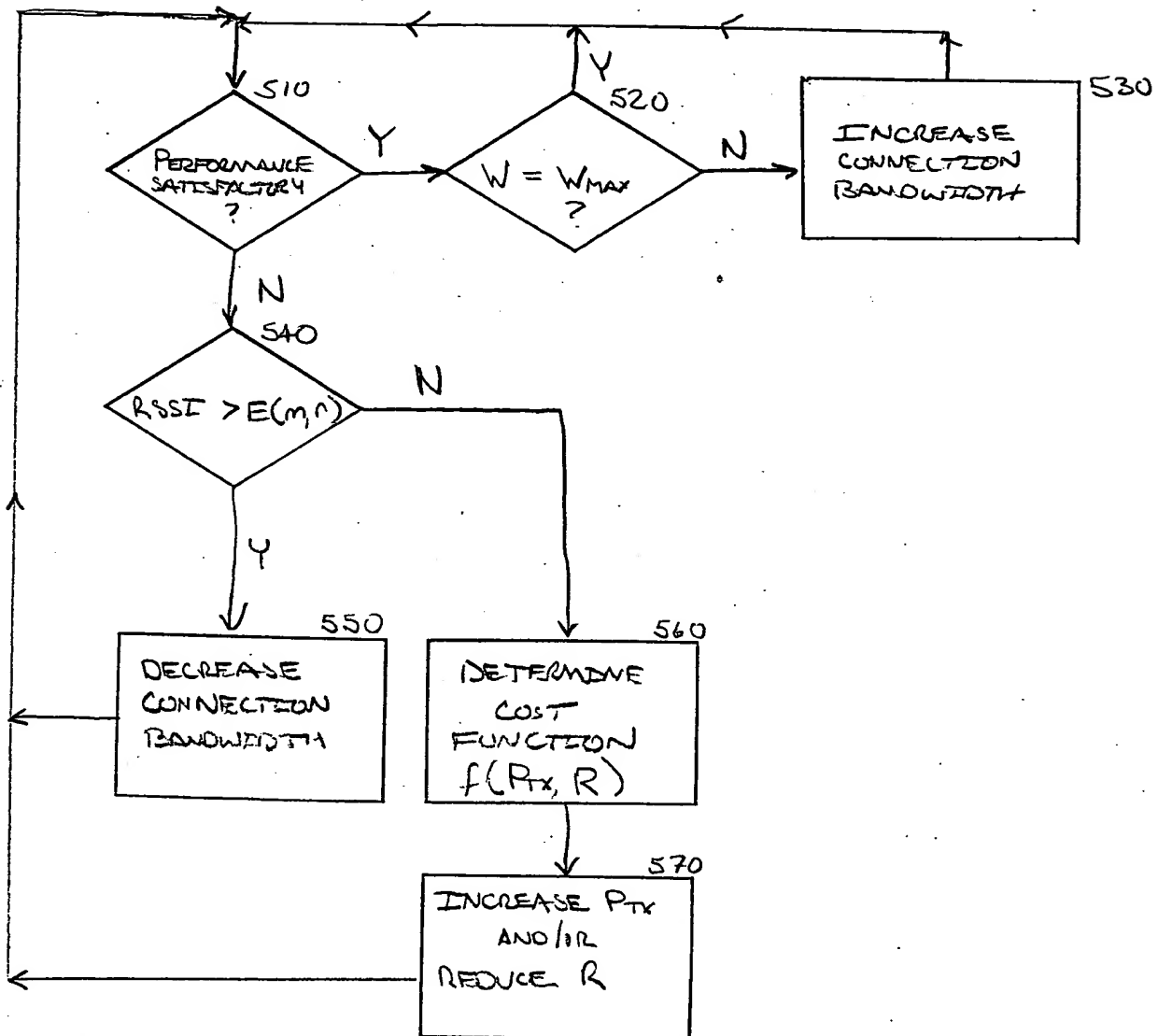


FIG. 5

	FEC CODING RATE	M $\frac{BITS}{SYMBOL}$	SIGNAL BANDWIDTH	NET USER RATE
64-QAM	1	6	$\frac{1}{3} W$	2 W
64-QAM	$\frac{3}{4}$	6	$\frac{4}{9} W$	2 W
16-QAM	1	4	$\frac{1}{2} W$	2 W
8-PSK	1	3	$\frac{2}{3} W$	2 W
8-PSK	$\frac{3}{4}$	3	$\frac{8}{9} W$	2 W
QPSK	1	2	W	2 W
QPSK	$\frac{3}{4}$	2	$\frac{4}{3} W$	2 W
QPSK	$\frac{2}{3}$	2	$\frac{3}{2} W$	2 W
QPSK	$\frac{1}{2}$	2	2 W	2 W
QPSK	$\frac{1}{3}$	2	3 W	2 W

FIGURE 6

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